

Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 032026-0769	SERIAL NO. 10/751,302
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Guilherme L. INDIG	
		FILING DATE 01/02/2004	GROUP ART UNIT 1615

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
		2002/0123530	09/05/2002	Indig			
		5,773,460	06/30/1998	Gaboury et al.			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Albota, M. A. et al., "Two-photon fluorescence excitation cross sections of biomolecular probes from 690 nm to 960 nm," <i>Appl. Optics</i> , Vol. 37, No. 31, pp. 7352-7356, 1998.
		Anderson, G. S. et al., "Inactivation of photosensitizing merocyanine dyes by plasma, serum and serum components," <i>Photochem. Photobiol.</i> , Vol. 64, No. 4, pp. 683-687, 1996; American Society for Photobiology.
		Ara, G. et al., "Mechanism of mitochondrial photosensitization by the cationic dye, N,N-bis(2-ethyl-1,3-dioxolane)krypto-cyanine (EDKC): preferential inactivation of complex I in the electron transport chain," <i>Cancer Res.</i> , Vol. 47, pp. 6580-6585, 1987.
		Baptista, M. S. et al., "Mechanism of photobleaching of Ethyl Violet non-covalently bound to bovine serum albumin," <i>Chem. Commu.</i> , pp. 1791-1992, 1997.
		Baptista, M. S. et al., "Effect of BSA binding on photophysical and photochemical properties of triarylmethane dyes," <i>J. Phys. Chem.</i> , Vol. 102B, pp. 4678-4688, 1998; American Chemical Society.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.

Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 032026-0769	SERIAL NO. 10/751,302
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Guilherme L. INDIG	
		FILING DATE 01/02/2004	GROUP ART UNIT 1615
		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
		Bartlett J. A. et al., "Effect of Self-association and Protein Binding on the Photochemical Reactivity of Triarylmethanes. Implications of Noncovalent Interactions on the Competition between Photosensitization Mechanisms Type I and Type II," <i>Photochem. Photobiol.</i> , Vol. 70, pp. 490-498, 1999; American Society for Photobiology.	
		Bartlett, J. A. et al., "Spectroscopic and photochemical properties of Malachite Green noncovalently bound to bovine serum albumin," <i>Dyes and Pigments</i> , Vol. 43, pp. 219-226, 1999; Elsevier Science Ltd.	
		Chance, B., "Fluorescent probe environment and the structural and charge changes in energy coupling of mitochondrial membranes," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 67, No. 2, pp. 560-564, 1970.	
		Chen, L. B., "Mitochondrial membrane potential in living cells," <i>Ann. Rev. Cell Biol.</i> , Vol. 4, pp. 155-181, 1988; Annual Reviews Inc.	
		Davis, S. et al., "Mitochondrial and plasma membrane potentials cause unusual accumulation and retention of rhodamine 123 by human breast adenocarcinoma-derived MCF-7 cells," <i>J. Biol. Chem.</i> , Vol. 260, pp. 13844-13850, 1985; The American Society of Biological Chemists, Inc.	
		Denk, W. et al., "2-photon laser scanning fluorescence spectroscopy," <i>Science</i> , Vol. 248, pp. 73-76, 1990.	
		Docampo, R. et al., "Light enhanced free radical formation and trypanocidal action of gentian violet (crystal violet)," <i>Science</i> , Vol. 220, pp. 1292-1294, 1983.	
		Docampo, R. et al., "Prevention of Chagas' disease resulting from blood transfusion by treatment of blood: toxicity and mode of action of gentian violet," <i>Biomed. Environ. Sci.</i> , Vol. 1, pp. 406-413, 1988; Academic Press, Inc.	
		Docampo, R. et al., "Enhancement of the cytotoxicity of crystal violet against <i>Trypanosoma cruzi</i> in the blood by ascorbate," <i>Molec. Biochem. Parasitol.</i> , Vol. 27, pp. 241-248, 1988; Elsevier Science Publishers B.V.	
		Duxbury, D. F., "The photochemistry and photophysics of triphenylmethane dyes in solid and liquid media," <i>Chem. Rev.</i> , Vol. 93, pp. 381-433.	
		Dyer, H. M., An Index of Tumor Chemotherapy, <i>NIH</i> , Aug. 13, 1951, pp. 10-12, 123 and 124.	
		Fiedorowicz, M. et al., "Efficient Photodynamic Action of Victoria Blue BO Against the Human Leukemic Cell Lines K-562 and TF-1," <i>Photochemistry and Photobiology</i> , Vol. 58, No. 3, pp. 356-361, 1993; American Society for Photobiology.	
		Fiedorowicz, M. et al., "The Photodynamic Effect of Victoria Blue BO on Peripheral Blood Mononuclear and Leukemic Cells," <i>Photochem. Photobiol.</i> , Vol. 65, No. 5, pp. 855-861, 1997; American Society for Photobiology.	
		Fischer, V. et al., "Spectroscopic studies of cutaneous photosensitizing agents. V. Spin trapping and direct electron spin resonance investigations of the photoreduction of gentian (crystal) violet," <i>Photochem. Photobiol.</i> , Vol. 7, pp. 11-119, 1984; Elsevier Science Publishers B.V.	
		Foote, C. S., "Mechanism of photosensitized oxidation," <i>Science</i> , Vol. 162, No. 3857, pp. 963-970, 1968.	

Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 032026-0769	SERIAL NO. 10/751,302
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Guilherme L. INDIG	
		FILING DATE 01/02/2004	GROUP ART UNIT 1615
		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Foote, C. S., "Definition of type I and type II photosensitized oxidation," <i>Photochem. Photobiol.</i> , Vol. 54, No. 5, p. 659, 1991; Pergamon Press plc, printed in Great Britain.		
	Gadelha, F. R. et al., "The mitochondrion of <i>Trypanosoma cruzi</i> is a target of CV toxicity," <i>Molec. Biochem. Parasitol.</i> , Vol. 34, pp. 117-126, 1989; Elsevier Science Publishers B.V. (Biomedical Division).		
	Gaffney D. K. et al., "Merocyanine 540-sensitized photoinactivation of leukemia cells: Role of oxygen and effects on plasma membrane integrity and mitochondrial respiration," <i>Exp. Hematol.</i> , Vol. 18, pp. 23-26, 1990; International Society for Experimental Hematology.		
	Hamal, S. et al., "Actinometric determination of absolute fluorescence quantum yields," <i>J. Phys. Chem.</i> , Vol. 87, pp. 83-89, 1983; American Chemical Society.		
	Hatchard, D. G., "A new sensitive chemical actinometer. II. Potassium ferrioxalate as a standard chemical actinometer," <i>Proc. R. Soc. London, Ser. A</i> , Vol. 235, pp. 518-536, 1956.		
	Indig, G. L., "Photochemistry of triarylmethane dyes bound to proteins," <i>Proceedings of Optical Methods for Tumor Treatment and Detection: Mechanisms and Techniques in Photodynamic Therapy V</i> , Vol. 2675, pp. 228-237, 1996; Society of Photo-Optical Instrumentation Engineers.		
	Indig, G. L., "Mechanism of Dye Bleaching upon Laser Excitation of Crystal Violet Bound to Bovine Serum Albumin," <i>Chemistry Letters</i> , pp. 243-244, 1997; The Chemical Society of Japan.		
	Indig, G. L., "Mechanisms of action of cationic dyes in photodynamic therapy of tumors," <i>Recent Res. Devel. Pure & Applied Chem.</i> , Vol. 3, pp. 9-19, 1999.		
	Indig, G. L., "Effect of Molecular Structure on the Performance of Triarylmethane Dyes as Therapeutic Agents for Photochemical Purging of Autologous Bone Marrow Grafts from Residual Tumor Cells," <i>J. Pharm. Sci.</i> , Vol. 89, No. 1, pp. 88-99, 2000; Wiley-Liss, Inc. and the American Pharmaceutical Association.		
	Indig, G., et al., "Effect of Molecular Structure on the Phototoxicity of Triarylmethane Dyes Towards Tumor and Normal Cells," Abstract, 30 th Annual Meeting of the American Society for Photobiology, Quebec City, Canada, July 13-17, 2002; Allen Press, Inc. 2001.		
	Iscove, N. N. et al., "Erythroid colony formation in cultures of mouse and human bone marrow: analysis of the requirement for erythropoietin by gel filtration and affinity chromatography on agarose-concanavalin-A," <i>J. Cell Physiol.</i> , Vol. 83, pp. 309-320, 1974.		
	Jockusch, S. et al., "Radical addition rate constants to acrylates and oxygen: α -hydroxy and α -amino radicals produced by photolysis of photoinitiators," <i>J. Am. Chem. Soc.</i> , Vol. 121, pp. 3921-3925, 1999; American Chemical Society.		
	Kandela, I. K. et al., "Effect of Molecular Structure on the Selective Phototoxicity of Triarylmethane Dyes Towards Tumor Cells," <i>J. Pharm. Sci.</i> , Vol. 89, No. 1, January 2000, and <i>Photochem. Photobiol. Sci.</i> , pp. 309-314, 2002; The Royal Society of Chemistry and Owner Societies.		
	Kasha, M. et al., "The exciton model in molecular spectroscopy," <i>Pure Appl. Chem.</i> , Vol. 11, pp. 371-392, 1965.		

Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 032026-0769	SERIAL NO. 10/751,302
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Guilherme L. INDIG	
		FILING DATE 01/02/2004	GROUP ART UNIT 1615
		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
		Kawakami, M. et al., "Synthesis and evaluation of novel rhodacyanine dyes that exhibit antitumor activity," <i>J. Med. Chem.</i> , Vol. 40, pp. 3151-3160, 1997; American Chemical Society.	
		Kowaltowski, A. J. et al., "Mitochondrial effects of triarylmethane dyes," <i>J. Bioenerg. Biomembr.</i> , Vol. 31, pp. 579-588, 1999; Plenum Publishing Corporation.	
		Koya, K. et al., "MKT-077, a novel rhodacyanine dye in clinical trials, exhibits anticarcinoma activity in preclinical studies based on selective mitochondrial accumulation," <i>Cancer Res.</i> , Vol. 56, pp. 538-543, 1996.	
		Kraljic, I. et al., "A new method for the detection of singlet oxygen in aqueous solution," <i>Photochem. Photobiol.</i> , Vol. 28, pp. 577-581, 1978; Pergamon Press Ltd.	
		Leo, A. et al., "Partition coefficients and their uses," <i>Chem. Rev.</i> , Vol. 71, No. 6, pp. 525-616, 1971.	
		Lewis, M. R. et al., "The Tumor-inhibitory Activity of Diaryl- and Triarylmethane Dyes," <i>Cancer Research</i> , Vol. 13, pp. 130-136, 1953.	
		Liao, Y. et al., "Alcohol effect on equilibrium constants and dissociation dynamics of xanthone-cyclodextrin complexes," <i>J. Phys. Chem.</i> , Vol. 11, pp. 734-743, 1996; American Chemical Society.	
		Lueck, H. B. et al., "Aggregation of triphenylmethane dyes in aqueous solution: dimerization and trimerization of crystal violet and ethyl violet," <i>Spectrochim Acta</i> , Vol. 48A, pp. 819-828, 1992; Pergamon Press Ltd.	
		Modica-Napolitano, J. S., "Photoactivation Enhances the Mitochondrial Toxicity of the Cationic Rhodacyanine MKT-077," <i>Cancer Res.</i> , Vol. 58, pp. 71-75, 1998.	
		Moraes-Souza, H. et al., "Strategies for prevention of transfusion-associated Chagas' disease," <i>Transf. Med. Rev.</i> , Vol. X, No. 3, pp. 161-170, 1996; W. B. Saunders Company.	
		Moreno, S. N. J. et al., "Crystal Violet as an Uncoupler of Oxidative Phosphorylation in Rat Liver Mitochondria," <i>J. Biol. Chem.</i> , Vol. 263, pp. 12493-12499, 1988; The American Society for Biochemistry and Molecular Biology, Inc.	
		Morgan, A. R. et al., "Synthesis and <i>in vivo</i> Activity of Some Porphyrindione Derivatives with Potential in Photodynamic Therapy," <i>Journal of Photochemistry and Photobiology, B: Biology</i> , Vol. 6, pp. 133-141, 1990; Elsevier Sequoia/Printed in The Netherlands.	
		Morgan, A. R. et al., "Diels-Alder Adducts of Vinyl Porphyrins: Synthesis and <i>in Vivo</i> Photodynamic Effect against a Rat Bladder Tumor," <i>J. Med. Chem.</i> , Vol. 33, pp. 1258-1262, 1990; American Chemical Society.	
		Morgan, A. R. et al., "Tin Etiopurpurin Dichloride-Sensitized Lipid Photooxidation of Erythrocyte Membranes," <i>Photochemistry and Photobiology</i> , Vol. 52, No. 5, pp. 987-991, 1990; Pergamon Press, Great Britain.	

Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 032026-0769	SERIAL NO. 10/751,302
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Guilherme L. INDIG	
		FILING DATE 01/02/2004	GROUP ART UNIT 1615
		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
		Morgan, J. et al., "GRP78 induction by calcium ionophore potentiates PDT using the mitochondrial targeting dye Victoria Blue BO," <i>Photochem. Photobiol.</i> , Vol. 67, No. 1, pp. 155-164, 1998; American Society for Photobiology.	
		Nussenzweig, V. et al., "Action of certain dyes on <i>T. cruzi</i> in vitro. The use of gentian violet to prevent the transmission of Chagas," <i>Hospital (Rio J.)</i> , Vol. 44, No. 6, pp. 731-744, 1953.	
		Oseroff, A. R., "Cationic Sensitizers, Combination Therapies, and New Methodologies," <i>Photodynamic therapy: Basic principles and clinical applications</i> , pp. 79-96, 1992; Dekker, New York.	
		Patel, J. et al., "Design of Novel Analogs of Victoria Blue BO (VBBO) for Photodynamic Therapy," <i>Abstracts of Papers of the American Chemical Society</i> , Vol. 203, April 5-10, 1992, San Francisco, California.	
		Ramirez, L. E. et al., "Prevention of transfusion-associated Chagas' disease by sterilization of <i>Trypanosoma cruzi</i> -infected blood with gentian violet, ascorbic acid, and light," <i>Transfusion</i> , Vol. 35, No. 3, pp. 226-230, 1995.	
		Reszka, K. et al., "Photosensitization by the trypanocidal agent crystal violet. Type I versus type II reactions," <i>Chem. Biol. Interactions</i> , Vol. 58, pp. 161-172, 1986; Elsevier Scientific Publishers Ireland Ltd.	
		Riley, J. F., M.D., "Retardation of Growth of a Transplantable Carcinoma in Mice Fed Basic Metachromatic Dyes," <i>Cancer Research</i> , Vol. 8, pp. 183-188, 1948.	
		See-Lasley, K. et al., <i>Manual of Oncology Therapeutics</i> , pp. 88 and 104, 1981; The C. V. Mosby Company.	
		Sieber, F. et al., "Selective killing of leukemic cells by merocyanine 540-mediated photosensitization," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 81, pp. 7584-7587, 1984.	
		Sundstrom, V. et al., "Picosecond kinetics of radiationless relaxations of triphenylmethane dyes. Evidence for a rapid excited-state equilibrium between states of differing geometry," <i>Chem. Phys.</i> , Vol. 73, pp. 439-458, 1982; North-Holland Publishing Company.	
		Traul, D. L. et al., "Potentiation of Merocyanine 540-Mediated Photodynamic Therapy by Salicylate and Related Drugs," <i>Photochemistry and Photobiology</i> , Vol. 62, No. 4, pp. 790-799, 1995; American Society for Photobiology.	
		Viola, A. et al., "Electron paramagnetic resonance evidence of the generation of superoxide and hydroxyl radicals by irradiation of a new photodynamic therapy photosensitizer, Victoria Blue BO," <i>J. Photochem. Photobiol. B: Biol.</i> , Vol. 32, pp. 49-58, 1996; Elsevier Science S.A.	
		Vogel, M., "Efficient intramolecular fluorescence quenching in triphenylmethane dyes involving excited states with charge separation and twisted conformations," <i>Ber Bunsen-Ges. Phys. Chem.</i> , Vol. 89, pp. 962-968, 1985; VCH Verlagsgesellschaft mbH, D-6940 Weinheim.	
		Wadwa, K. et al., "Cationic Triarylmethane Photosensitizers for Selective Photochemotherapy: Victoria Blue-BO, Victoria Blue-R and Malachite Green," <i>Advances in Photochemotherapy</i> , Vol. 997, pp. 154-161, 1988.	
		Yamazaki, T. et al., "Role of Cytoprotective Mechanisms in the Photochemical Purging of Autologous Bone Marrow Grafts," <i>Experimental Hematology</i> , Vol. 25, pp. 629-637, 1997; International Society for Experimental Hematology.	

